## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39581

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : A47J 37/00			
US CL : 099/332, 331, 450			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 099/332, 331, 444-450, 443C, 443R, 339, 340, 372-384; 219/400, 492-497, 501, 505, 481			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
Executivities data base constituted dataing the international scarcii (maine of data base and, where practicable, scarcii terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap		sages Relevant to claim No.
A	US 4,924,763 A (BINGHAM) 51 May 1990 (15.05.	990), entire document.	1-4
A	US 5,277,105 A (BRUNO et al.) 11 January 1994 (11.01.1994), entire document.		
			1
A	US 5,454,295 A (COX et al.) 03 October 1995 (03.10.1995), entire document.		1-4
	·		
			1
			İ
	<u>.</u>		
L Further	documents are listed in the continuation of Box C.	See patent family	annex.
* S	pecial categories of cited documents:		ed after the international filing date or priority
"A" document	defining the general state of the art which is not considered to be	principle or theory und	t with the application but cited to understand the derlying the invention
of particu	lar relevance	•	
"E" earlier ap	plication or patent published on or after the international filing date		r relevance; the claimed invention cannot be unnot be considered to involve an inventive step
•		when the document is	
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular	relevance; the claimed invention cannot be
specified)			an invention step when the document is
#O# doawer.com			more other such documents, such combination
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a per	son skined in the art
		"&" document member of	the same patent family
priority date claimed			
Date of the actual completion of the international search		Date of mailing of the international search report	
07 March 2005 (07.03.2005)		07 APR 2005	
		Authorized officer	
Mail Ston PCT. Attn: ISA/IJS		X 100 ETTICAL	
Commissioner for Patents		Timothy F. Simone  Telephone No. 571 272-1709	
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 571-272-176	bel —
Facsimile No. (703)305-3230			

Form PCT/ISA/210 (second sheet) (January 2004)